

List of Plants

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*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Plant	Part	Low PPM	High PPM	StdDev	*Reference
<i>Cinnamomum aromaticum</i>	Plant	--	60.0	2.88	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Cinnamomum aromaticum</i>	Bark	--	60.0	1.73	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Fucus vesiculosus</i>	Plant	--	40.0	1.75	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Rhodymenia palmata</i>	Plant	--	26.0	0.96	*
<i>Chondrus crispus</i>	Plant	--	7.0	-0.11	Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.
<i>Juncus effusus</i>	Pith	--	1.41	1.0	*
<i>Arctium lappa</i>	Root	--	1.27	4.06	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Eucommia ulmoides</i>	Bark	--	0.92	-0.56	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
<i>Vigna unguiculata</i>	Seed	--	0.58	2.9	*
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<i>Lygodium japonicum</i>	Pollen Or Spore	--	0.55		*
<i>Petroselinum crispum</i>	Plant	0.004	0.37	-0.48	*
<i>Jussiaea repens</i>	Plant	--	0.31	-0.49	*
<i>Celosia cristata</i>	Flower	--	0.29	2.14	*
<i>Sophora angustifolia</i>	Root	--	0.27	0.46	*
<i>Pulsatilla chinensis</i>	Root	--	0.22	0.28	*
<i>Asiasarum heterotropoides</i>	Root	--	0.19	0.17	*
<i>Asiasarum sieboldii</i>	Root	--	0.19	0.17	*
<i>Oryza sativa</i>	Seed	--	0.167	0.3	*
<i>Rheum rhabarbarum</i>	Pt	0.002	0.14		*
<i>Magnolia denudata</i>	Flower	--	0.14	0.4	*
<i>Magnolia fargesii</i>	Flower	--	0.14	0.4	*
<i>Magnolia kobus</i>	Flower	--	0.14	0.4	*
<i>Bupleurum chinense</i>	Root	--	0.14	-0.01	*
<i>Nardostachys chinensis</i>	Rhizome	--	0.13	1.7	*
<i>Spinacia oleracea</i>	Leaf	0.003	0.11	1.68	ACTA AGRIC SCAND SUPPL 22: 1980
<i>Sophora subprostrata</i>	Root	--	0.11	-0.12	*
<i>Acanthopanax gracilistylis</i>	Root Bark	--	0.11		*
<i>Pistacia vera</i>	Seed	--	0.1	-0.12	*

Firmiana simplex	Seed	--	0.1	-0.12	*
Amomum xanthoides	Seed	--	0.1	-0.12	*
Juglans nigra	Seed	--	0.1	-0.12	Furr, A.K., et al. 1979
Prunus dulcis	Seed	0.002	0.1	-0.12	*
Carya illinoensis	Seed	--	0.1	-0.12	*
Plantago asiatica	Plant	--	0.1	-0.5	*
Cocos nucifera	Seed	--	0.1	-0.12	Furr, A.K., et al. 1979
Brassica oleracea var. botrytis l.	Leaf	0.002	0.09	1.17	*
Brassica oleracea var. italicica	Leaf	0.002	0.09	1.17	ACTA AGRIC SCAND SUPPL 22: 1980
Fraxinus rhynchophylla	Bark	--	0.09	-0.59	*
Notopterygium incisum	Rhizome	--	0.09	0.82	*
Lycium chinense	Fruit	--	0.08	2.9	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Scutellaria baicalensis	Root	--	0.08	-0.22	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Cistanche salsa	Plant	--	0.08	-0.5	*
Equisetum hyemale	Plant	--	0.08	-0.5	*
Triticum aestivum	Seed	--	0.079	-0.26	*
Zea mays	Seed	--	0.072	-0.3	*
Vaccinium vitis-idaea	Fruit	--	0.07	2.44	*
Hordeum vulgare	Sprout Seedling	--	0.07		Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Lycopodium clavatum	Plant	--	0.07	-0.5	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Albizia julibrissin	Bark	--	0.07	-0.59	*
Anethum graveolens	Plant	0.003	0.06	-0.5	ACTA AGRIC SCAND SUPPL 22: 1980
Taraxacum mongolicum	Plant	--	0.06	-0.5	*
Cynanchum atratum	Root	--	0.06	-0.3	*
Broussonetia papyrifera	Fruit	--	0.06	1.97	*
Prunella vulgaris	Flower	--	0.06	-0.53	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Drynaria fortunei	Rhizome	--	0.06	0.15	*
Artemisia capillaris	Plant	--	0.05	-0.5	*
Solanum tuberosum	Tuber	--	0.05	1.0	*
Corylus avellana	Seed	0.004	0.05	-0.44	*
Chaenomeles lagenaria	Fruit	--	0.05	1.5	*
Pimenta dioica	Plant	--	0.05	-0.5	*
Cucumis sativus	Fruit	--	0.05	1.5	*
Tetrapanax papyrifera	Pith	--	0.05	-1.0	*
Symporicarpus orbiculatus	Stem	--	0.05	0.71	*
Dendrobium nobile	Stem	--	0.05	0.71	*
Daucus carota	Root	0.001	0.045	-0.35	*
Vigna mungo	Seed	--	0.045	-0.47	*

Fritillaria thunbergii	Bulb	--	0.04	1.0	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Pueraria pseudohirsuta	Root	--	0.04	-0.37	*
Lactuca sativa	Leaf	--	0.04	-0.1	*
Vigna radiata	Seed	--	0.036	-0.53	*
Lonicera japonica	Flower	--	0.03	-0.88	*
Areca catechu	Seed	--	0.03	-0.57	*
Bletilla striata	Tuber	--	0.03	-1.0	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Rubus chingii	Fruit	--	0.03	0.57	*
Crataegus cuneata	Fruit	--	0.03	0.57	*
Urtica dioica	Leaf	0.005	0.028	-0.4	ACTA AGRIC SCAND SUPPL 22: 1980
Apium graveolens	Root	--	0.027	-0.42	ACTA AGRIC SCAND SUPPL 22: 1980
Brassica oleracea var. botrytis l.	Flower	--	0.025	-0.94	*
Pinus echinata	Shoot	--	0.025	0.71	*
Quercus stellata	Stem	--	0.025	-1.41	*
Juniperus virginiana	Shoot	--	0.025	0.71	*
Pisum sativum	Seed	0.001	0.024	-0.6	*
Lophatherum gracile	Plant	--	0.02	-0.5	*
Phaseolus vulgaris	Fruit	--	0.02	0.1	ACTA AGRIC SCAND SUPPL 22: 1980
Dioscorea bulbifera	Rhizome	--	0.02	-0.74	*
Malus domestica	Fruit	--	0.02	0.1	*
Carthamus tinctorius	Flower	--	0.02	-1.0	*
Eriobotrya japonica	Leaf	--	0.02	-0.61	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
Pyrus communis	Fruit	--	0.019	0.05	*
Ribes uva-crispa	Fruit	--	0.017	-0.04	*
Beta vulgaris	Root	--	0.016	-0.45	ACTA AGRIC SCAND SUPPL 22: 1980
Raphanus sativus	Root	--	0.014	-0.46	*
Brassica oleracea var. capitata l.	Leaf	--	0.013	-0.79	*
Prunus domestica	Fruit	--	0.013	-0.23	*
Vitis vinifera	Fruit	--	0.011	-0.32	*
Sorbus aucubaria	Fruit	0.001	0.011	-0.32	*
Juglans cinerea	Seed	--	0.01	-0.69	*
Bertholletia excelsa	Seed	--	0.01	-0.69	Furr, A.K., et al. 1979
Anacardium occidentale	Seed	--	0.01	-0.69	*
Brassica rapa	Root	0.001	0.01	-0.48	*
Alisma plantago-aquatica	Rhizome	--	0.01	-0.96	*
Asparagus lucidus	Root	--	0.01	-0.48	*
Brassica napus var. napobrassica	Root	--	0.01	-0.48	ACTA AGRIC SCAND SUPPL 22: 1980
Gastrodia elata	Rhizome	--	0.01	-0.96	*
Ribes nigrum	Fruit	--	0.01	-0.37	ACTA AGRIC SCAND SUPPL 22: 1980
Quisqualis indica	Fruit	--	0.01	-0.37	*
Fragaria spp	Fruit	--	0.009	-0.41	ACTA AGRIC SCAND SUPPL 22: 1980
Musa x paradisiaca	Fruit	0.001	0.007	-0.51	ACTA AGRIC SCAND SUPPL 22: 1980
Prunus persica	Fruit	--	0.007	-0.51	*

<i>Vaccinium macrocarpon</i>	Fruit	0.001	0.007	-0.51	ACTA AGRIC SCAND SUPPL 22: 1980
<i>Ribes rubrum</i>	Fruit	--	0.006	-0.55	*
<i>Rubus chamaemorus</i>	Fruit	0.001	0.006	-0.55	*
<i>Pastinaca sativa</i>	Root	0.001	0.002	-0.5	*
<i>Cichorium endivia</i>	Leaf	0.002	0.002	-1.06	*
<i>Lycopersicon esculentum</i>	Fruit	0.001	0.002	-0.74	*
<i>Brassica pekinensis</i>	Leaf	--	0.002	-1.06	*
<i>Cucumis melo</i>	Fruit	0.001	0.001	-0.79	*
<i>Capsicum annuum</i>	Fruit	0.001	0.001	-0.79	*
<i>Citrus sinensis</i>	Fruit	--	0.001	-0.79	*
<i>Citrus reticulata</i>	Fruit	--	0.001	-0.79	ACTA AGRIC SCAND SUPPL 22: 1980
<i>Citrus paradisi</i>	Fruit	--	0.001	-0.79	*
<i>Asparagus officinalis</i>	Shoot	0.001	0.001	-1.41	*
<i>Rosa canina</i>	Fruit	--	0.001	-0.79	ACTA AGRIC SCAND SUPPL 22: 1980
<i>Armoracia rusticana</i>	Root	--	0.001	-0.51	ACTA AGRIC SCAND SUPPL 22: 1980
<i>Allium cepa</i>	Bulb	--	0.001	-1.0	*
<i>Vaccinium myrtillus</i>	Fruit	--	0.001	-0.79	ACTA AGRIC SCAND SUPPL 22: 1980
<i>Solanum melongena</i>	Fruit	0.001	0.001	-0.79	*
<i>Senna obtusifolia</i>	Seed	--	--		*
<i>Arachis hypogaea</i>	Seed	--	--		*